Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- (cancelled)
- (previously presented) A method for using high affinity TCRs to identify ligands comprising:

labeling high affinity TCRs:

contacting said labeled TCRs with peptide/MHC ligands:

identifying the ligand with which the labeled TCR is bound, wherein said label is selected from the group consisting of: fluorescent compounds, chemiluminescent compounds, radioisotopes and chromophores.

- 3-4. (cancelled)
- (previously presented) A method of using high affinity TCRs to bind to a selected peptide/MHC ligand comprising:

labeling said high affinity TCRs that binds to the selected peptide/MHC ligand with a label:

- contacting said labeled high affinity TCRs with cells containing MHC molecules, wherein said label is selected from the group consisting of: fluorescent compounds, chemiluminescent compounds, radioisotopes and chromophores.
- (previously presented) A method for using high affinity TCRs as diagnostic probes for specific peptide/MHC molecules on surfaces of cells comprising: labeling high affinity TCRs that binds to specific peptide/MHC ligands with a label;

contacting said TCRs with cells;

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detecting said label.

 (previously presented) A method for using high affinity TCRs that bind to pMHCs for diagnostic tests comprising:

labeling the high affinity TCR with a detectable label;

contacting said labeled high affinity TCR with cells;

detecting the label.

- (original) The method of claim 7, wherein the number of labels present is detected.
- (original) The method of claim 7, wherein the location of the labels is detected in an organism.
- (previously presented) The method of claim 7, wherein said labeled high affinity
 TCR binds to specific peptide/MHC ligands, whereby cells that express specific peptide/MHC ligands are targeted.

11-32. (cancelled)

33. (previously presented) A method for using high affinity T Cell Receptors (TCRs) to detect ligands comprising the steps of:

labeling high affinity TCRs;

contacting said labeled TCRs with peptide/MHC ligands:

detecting the presence of the label thereby detecting the ligand to which the labeled TCR is bound wherein the high affinity TCR carries one or more mutations in a CDR

 (original) The method of claim 33 wherein the one or more mutations are in CDR3\(\alpha\) or CDR3\(\beta\). Appl. No. 10/783,786 Amdt. dated March 12, 2009 Reply to Final Office Action of September 16, 2008

- 35. (cancelled)
- (original) The method of claim 33 wherein the peptide/MHC ligand is on the surface of a cell.
- (original) The method of claim 33 wherein the label is selected from the group consisting of:

fluorescent compounds, chemiluminescent compounds, radioisotopes and chromophores.

38-81. (cancelled)

- (original) The method of claim 6, wherein said detecting step is performed by flow cytometry.
- (original) The method of claim 7, wherein said detecting step is performed by flow cytometry